

LISTING OF CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application.

1 (Currently Amended): A stand-alone display device of an injection molding machine that operates in accordance with an operating condition, the display device comprising:

an input unit configured to ~~receive an~~ enable input of a change in the operating condition of the injection molding machine and to enable input of qualitative information corresponding to ~~including a state of an operating quality of the machine for a~~ resulting from the change in the operating condition of the machine, said qualitative information indicative of quality of a product produced by the machine as a result of the change in the operating condition;

a storage process unit configured to store data including history data including one or more of product data, mold numbers, resin material data or product molding conditions, the history data further including the inputted data related to the change in operating condition of the machine and the qualitative information corresponding to the state of the operating quality of the machine resulting from the change in operating condition, the history data ~~indicative of the change in the operating condition and the state of the operating quality corresponding to the change,~~ wherein the storage process unit is configured to record data including data indicative of product identification data indicating a product produced by the injection molding machine in accordance with the change in the operating condition and the history data corresponding to the product identification data; and

a display unit configured to simultaneously display a first display area and a second display area in the display unit, wherein the first display area is configured to display data that includes the history data and product identification data and the state of the operating quality resulting from the change in the inputted operating condition stored by the storage process unit and the second display area is configured to display data that includes monitoring data representing the operating condition for the injection molding machine.

2 (Cancelled).

3 (Previously Presented): The display device according to claim 1, wherein the history data and the product identification data are used for assisted software for assisting an operating condition setting operation.

4 (Currently Amended): A stand-alone history collecting system comprising:

a communication unit configured to communicate with a display device of an injection molding machine operated in accordance with an operating condition through a communication medium, ~~the display device configured to simultaneously display a first display area and a second display area in the display device, wherein the first display area is configured to display data that includes the history data and product identification data and the state of the operating quality resulting from the change in the inputted operating condition stored by the storage process unit and the second display area is configured to display data that includes monitoring data representing the operating condition for the injection molding machine~~ the display device including an input unit configured to enable input of a change in the operating condition of the injection molding machine and to enable input of qualitative information corresponding to a state of an operating quality of the machine resulting from the change in the operating condition of the machine, said qualitative information indicative of quality of a product produced by the machine as a result of the change in the operating condition;

a unit configured to receive data including history data including one or more of product data, mold numbers, resin material data or product molding conditions, the history data further including the inputted data related to the change in operating condition of the machine and the qualitative information corresponding to the state of the operating quality of the machine resulting from the change in operating condition ~~the history data indicative of a change in the operating condition and a state of an operating quality corresponding to the change in the operating condition~~ from the display device using the communication unit; and

a storage unit configured to store the history data, wherein the storage unit records data indicative of a product identification data indicating a product produced by the injection

molding machine in accordance with the change in the operating condition and the history data corresponding to the product identification data,

wherein the display unit is configured to display data including the history data and the state of the operating quality resulting from the change in the operating condition,

wherein the display device is configured to simultaneously display a first display area and a second display area in the display device, wherein the first display area is configured to display data that includes the history data and product identification data and the state of the operating quality resulting from the change in the inputted operating condition stored by the storage unit and the second display area is configured to display data that includes monitoring data representing the operating condition for the injection molding machine.

5 (Currently Amended): A display device of an injection molding machine that operates in accordance with an operating condition, the display device comprising:

an input unit, coupled to the display device, configured to receive an input from a user and from the injection molding machine, the input including qualitative information corresponding to a state of an operating quality of the machine resulting from the change in the operating condition of the machine, said qualitative information indicative of quality of a product produced by the machine as a result of the change in the operating condition;

a screen controller including a storage process unit, the screen controller configured to receive a display request from the input unit and configured to create a first display image on a first display area of the display device based on data stored in a first storage module and to create a second display image on a second display area of the display device based on data stored in a second storage module;

the storage process unit configured to receive and store data including one or more of changed molding conditions of the injection molding machine, molding qualities corresponding to the changed molding conditions, and product identification data indicative of a product molded by the injection molding machine in accordance with the changed molding conditions and history data including one or more of product data, mold numbers, resin material data, to the second storage module, the history data further including the qualitative information

corresponding to the state of the operating quality of the machine resulting from the change in operating condition;

the display device configured to simultaneously display the first and the second display image in the first and the second display areas, wherein the first display area is configured to allow the user to control and operate the injection molding machine by the input unit.

6 (Previously Presented): A display device in accordance with claim 5, wherein the display device further includes a communication module configured to communicate through a communications medium to a remote communication terminal, the remote communication terminal including a collection unit, a collection storage unit, and a display unit;

the collection unit configured to initiate communication with the display device and transfer the data stored in the storage module and store the transferred data into the collection storage unit, the display unit configured to display the data stored in the collection storage unit.

7 (Previously Presented): A display device in accordance with claim 5, wherein the first and the second storage module are configured to be in the same storage module.

8 (Cancelled)